

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 27 (RIDGE ROAD) AT STONE CHAPEL ROAD/ WARFIELDSDURG ROAD IN CARROLL COUNTY. ONE 16.5 FOOT STEEL POLE WITH A 60 FOOT MAST ARM AND TWO 30 FOOT LIGHT POLES WITH 10 FOOT BRACKET ARMS ARE PROPOSED. MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH FLASHING YELLOW ON MD 27 (RIDGE ROAD) AND FLASHING RED ON STONE CHAPEL ROAD AND WARFIELDSDURG ROAD.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT PHASE FULLY ACUTATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSSES IN A NEMA SIZE '6' BASE MOUNTED CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)-787-7653 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: 301-624-8140/8141

Ms. Andrea Abend  
Assistant District Engineer - Utility  
Phone: 301-624-8105/8116

Mr. Raymond Johnson  
Assistant District Engineer - Maintenance  
Phone: 301-624-8105/8106

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

The Power Company Representative Is:

Baltimore Gas & Electric  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9044	1 EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9571	76 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
		1 EA - D-3(2) (96 IN. X 32 IN.) *STONE CHAPEL RD/WARFIELDSDURG RD* DUAL FACED
		1 EA - ASSOCIATED SHIELD ASSEMBLY (24 IN. X 51 IN.) *SOUTH, MD 27, RIGHT ARROW*
		1 EA - ASSOCIATED SHIELD ASSEMBLY (24 IN. X 51 IN.) *NORTH, MD 27, RIGHT ARROW*
		1 EA - ASSOCIATED SHIELD ASSEMBLY (36 IN. X 75 IN.) *SOUTH, MD 27, LEFT ARROW*
		1 EA - ASSOCIATED SHIELD ASSEMBLY (36 IN. X 75 IN.) *NORTH, MD 27, LEFT ARROW*

EQUIPMENT LIST 'B'

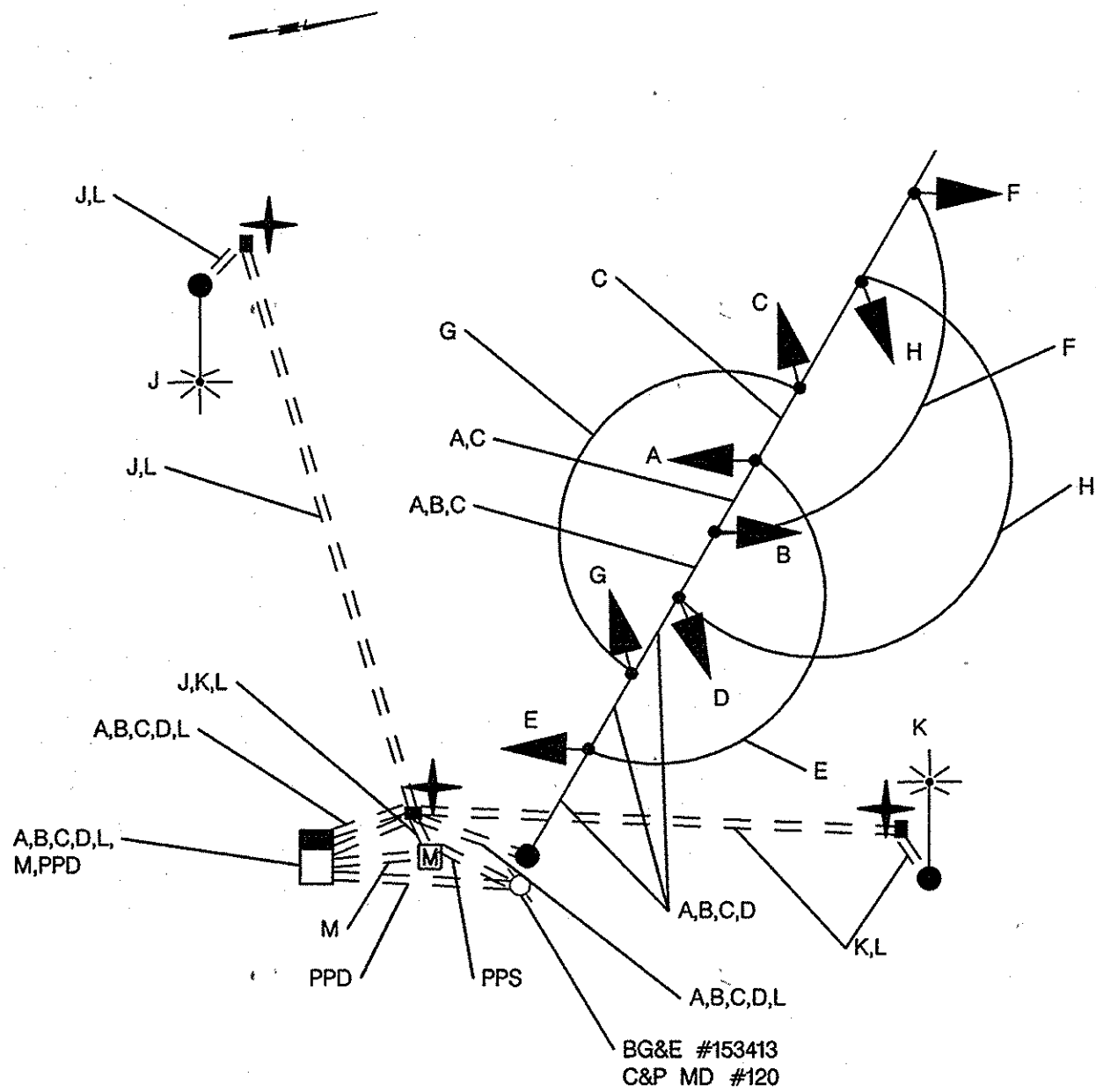
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	3 CY	TEST PIT EXCAVATION
5002	60 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	50 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8000	2 EA	FURNISH AND INSTALL 30 FOOT LIGHT STRUCTURE - 10 FOOT BRACKET ARM
8000	2 EA	BREAKAWAY BASE SUPPORT SYSTEM FOR LIGHTING STRUCTURE
8000	5 CY	CONCRETE FOR LIGHT FOUNDATION
1 8000	2 EA	200-250 WATT HIGH PRESSURE SODIUM LAMP & LUMINAIRE WITH HOUSE SIDE SHIELDING
8001	8 EA	12 INCH LED SIGNAL HEAD SECTION
8017	1 EA	MAST ARM POLE & 60 FT. MAST ARM ANY *T* DIMENSION
8036	120 LF	SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT UP TO 4 INCHES - TRENCHED
8037	100 LF	SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT UP TO 4 INCHES - BORED
8038	102 LF	WOOD SIGN SUPPORTS UP TO 4 X 6
8040	76 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	250 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8046	120 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG-THHN/THWN
8048	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8057	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8058	400 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8059	300 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
8065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

PHASE CHART

	1	2	3	4	5	6	7	8	
	Y	Y	Y	Y	R	R	R	R	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	+

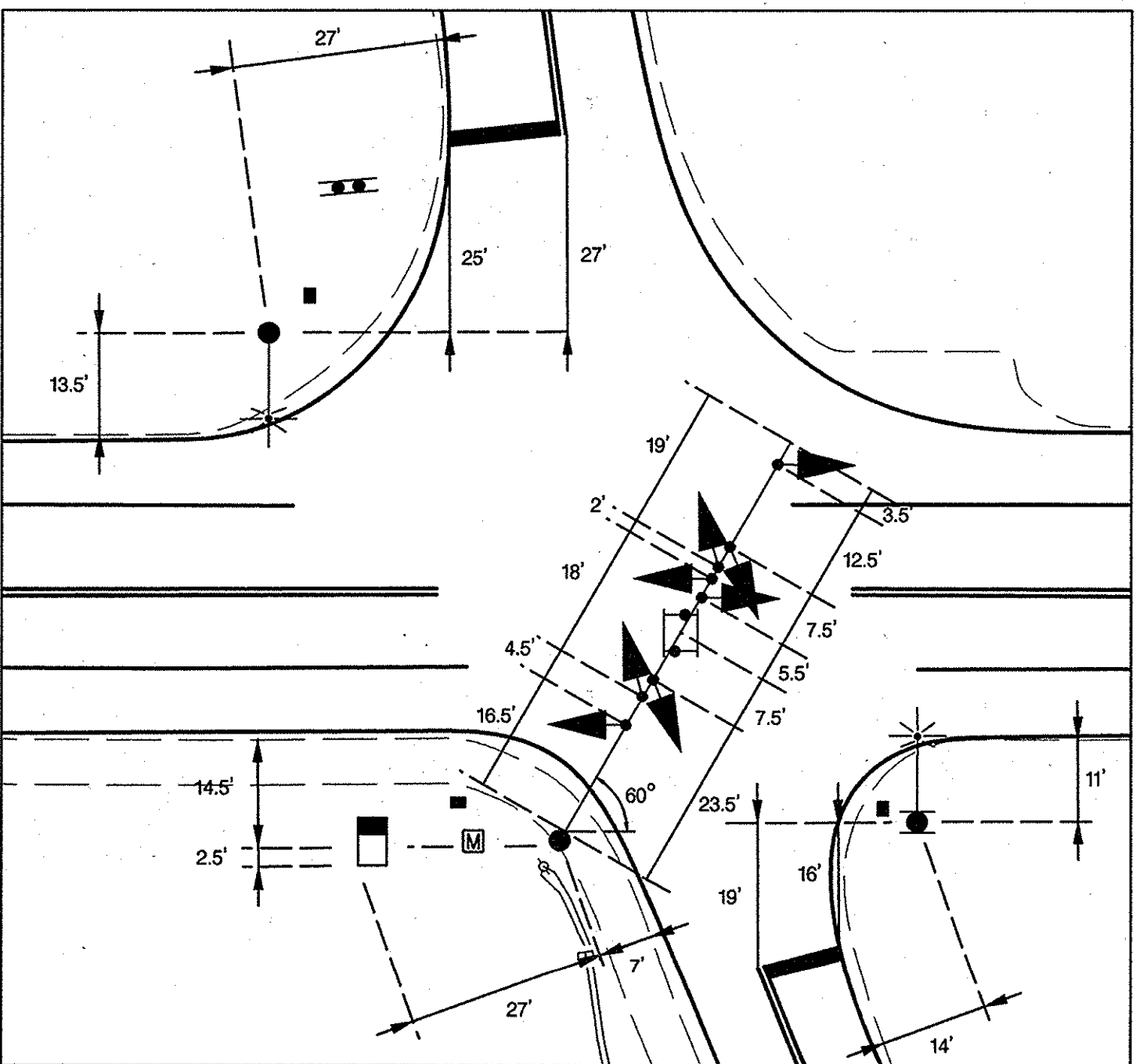
WIRING DIAGRAM



- A B C D ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- E F G H ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- J K ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
- L NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

- M PROPOSED POWER SOURCE
- M ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG THHN/THWN (3 RUNS WITH 3 - 30' COILS OF SLACK)
- M PROPOSED METERED SERVICE PEDESTAL
- PPS PROPOSED POWER SERVICE TO BE INSTALLED BY OTHERS
- PPD PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS
- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

SIGNAL POLE, HEAD AND SIGN  
DETAIL LAYOUT  
(SCALE: 1"=20')



EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

1 REDLINE REVISION 06/03/2008

6/13/08



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 27 (RIDGE ROAD) at  
STONE CHAPEL ROAD/WARFIELDSDURG ROAD

GENERAL NOTES

SCALE NONE DATE 03/2007 CONTRACT NO. AX1425185

DESIGNED BY MCG COUNTY CARROLL  
DRAWN BY CCW LOGMILE 06002714.52  
CHECKED BY BAB T.I.M.S. NO. 1071  
F.A.P. NO. TOD NO.

DRAWING NO. TS-4570-GI OF SHEET NO. 2 OF 2